Dock No.:

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

N RE APPLICATION OF:			GROUP: 1623		
Andrea CAPO	OCCHI				
SERIAL NO: 10/516,945			EXAMINER: M.C. HENRY		
FILED:	August 2	3, 2005			
FOR:	A PROCESS FOR THE PREPARATION OF PIROXICAM: B-CYCLODEXTRIN INCLUSION COMPOUNDS				
	DEC:	LARATION UNDE	ER 37 C.F.R. § 1.132		
	ONER FOR PATE IA, VIRGINIA 22				
Sir:					
Now o	Now comes SCAPPATICEL GIUSEPRE who				
deposes and s	states that:				
1. I an	n a graduate of	BIOLOGICAL S	CIENCES	and	
			degree in the year1376		
2. I ha	we been employed	by INTERNATION	VAL CHEMICAL INDUSTRY	-	
SpA (10	.1)	for31	years as a RRD DIRECT	TOL	
	_ in the field of _	CHEMICAL N	NANUFACTURING		
3. The	e following experi	ments were carried	l out by me or under my direct su	pervision	
and control.					
4. About 50 litres of water was poured into a tank and heated up to a temperature of 70-					
73°C.					
5. 8.6	kg (7.57 moles) o	f β-cyclodextrin, 1	kg (3.02 moles) of piroxicam and	1 kg of 28%	
ammonium hydroxide were added in succession, and the mixture stirred for 30 min. The hot					
solution was poured through the tap on the temperature-controlled shelves of a freeze-dryer					
pre-cooled at					
r					

6. By applying said temperature to the shelves, the solution reaches the freezing temperature of -10° C in 120 min, and hence at a cooling rate of about 0.7° C/min, so lower than 1° C/min.

7. Under these conditions of cooling, it has been observed that, when the solution reaches the temperature of 50-55°C, β-cyclodextrin begins to re-crystallize causing de-complexation of

piroxicam.

8. Therefore pre-cooling the shelves of the freeze-dryer to a temperature of -20° C is not sufficient for achieving a cooling rate equal to or higher than 1° C/min, and hence for obtaining a product characterized by: i) completeness of the inclusion reaction; and ii) complete

amorphization, and wherein piroxicam is present in the zwitter-ionic form.

9. The undersigned petitioner declares further that all statements made herein of his

own knowledge are true and that all statements made on information and belief are believed to

be true and further that these statements were made with the knowledge that willful false

statements and the like so made are punishable by fine or imprisonment, or both, under Section

1001 of Title 18 of the United States Code and that such willful false statements may

jeopardize the validity of this application or any patent issuing thereon.

10. Further deponent saith not.

Sionature

Date

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